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1 On distributed processibility of datalog queries by decomposing databases

Guozhu Dong
June 1989 ACM SIGMOD Record, Volume 18 Issue 2
Publisher: ACM

Full text available: pdf(1.03 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 24, Citation Count: 7

We consider distributed or parallel processing of datalog queries. We address this issue by decomposing databases into a number of subdatabases such that the computation of a program on a database can be achieved by unioning its independent evaluations ...

2 Safety of datalog queries over infinite databases

Y. Sagiv, M. Y. Vardi
March   PODS '89: Proceedings of the eighth ACM SIGACT-SIGMOD-SIGART
1989   symposium on Principles of database systems
Publisher: ACM

Full text available: pdf(1.15   Additional Information: full citation, abstract, references, cited by, index
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Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 25,   Citation Count: 9

A query is safe with respect to a set of constraints if for every database that satisfies the constraints the query is guaranteed to yield a finite set of answers. We study here the safety problem for Datalog programs with respect to ...

3 Recursive Strategies for Answering Recursive Queries - The RQA/FQI Strategy

Wolfgang Nejdl
September   VLDB '87: Proceedings of the 13th International Conference on Very
1987   Large Data Bases
Publisher: Morgan Kaufmann Publishers Inc.

Additional Information: full citation, references, cited by

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 7

4 Logic-based approach to semantic query optimization

Upen S. Chakravarthy, John Grant, Jack Minker
June   ACM Transactions on Database Systems (TODS),   Volume 15 Issue 2
1990
Publisher: ACM

Full text available: pdf(3.46   Additional Information: full citation, abstract, references, cited by, index
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Bibliometrics: Downloads (6 Weeks): 14,   Downloads (12 Months): 184,   Citation Count: 47

The purpose of semantic query optimization is to use semantic knowledge (e.g., integrity constraints) for transforming a query into a form that may be answered more efficiently than the original version. In several previous papers we described and proved ...

5 Query evaluation techniques for large databases

Goetz Graefe
June   ACM Computing Surveys (CSUR),   Volume 25 Issue 2
1993
Publisher: ACM

Full text available: pdf(9.37   Additional Information: full citation, abstract, references, cited by, index
MB)   terms, review

Bibliometrics: Downloads (6 Weeks): 70,   Downloads (12 Months): 822,   Citation Count: 202

Database management systems will continue to manage large data volumes. Thus,
efficient algorithms for accessing and manipulating large sets and sequences will be
required to provide acceptable performance. The advent of object-oriented and
extensible ...

Keywords: complex query evaluation plans, dynamic query evaluation plans,
extensible database systems, iterators, object-oriented database systems, operator
model of parallelization, parallel algorithms, relational database systems, set-
matching algorithms, sort-hash duality

6 A Parallel Processing Strategy for Evaluating Recursive Queries

Louiqa Raschid, Stanley Y. W. Su
August   VLDB '86: Proceedings of the 12th International Conference on Very Large
1986   Data Bases
Publisher: Morgan Kaufmann Publishers Inc.

Additional Information: full citation, references, cited by

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 10

7 Non-deterministic modelling of logical queries in deductive databases

Hussien Aly, Z. Meral Ozsoyoglu
December   SIGMOD '87: Proceedings of the 1987 ACM SIGMOD international
1987   conference on Management of data
Publisher: ACM

Full text available: pdf(1.08   Additional Information: full citation, abstract, references, cited by, index
MB)   terms

Bibliometrics: Downloads (6 Weeks): 0,   Downloads (12 Months): 15,   Citation Count: 2

We propose a technique based on Petri Nets formalism to model logic queries in
deductive databases. The model is called PNLP (Petri Net model for Logic Programs),
and it has a simple formal description and a graphical representation. The PNLP
model explicitly ...

8 [Necessary and sufficient conditions to linearize doubly recursive programs in logic databases](#)

Weining Zhang, Clement T. Yu, Daniel Troy
September   ACM Transactions on Database Systems (TODS), Volume 15 Issue
1990   3
Publisher: ACM

Full text available: pdf(1.90 MB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 41,   Citation Count: 6

Linearization of nonlinear recursive programs is an important issue in logic databases for both practical and theoretical reasons. If a nonlinear recursive program can be transformed into an equivalent linear recursive program, then it may be computed ...

Keywords: logic database

9 [An amateur's introduction to recursive query processing strategies](#)

Francois Bancilhon, Raghu Ramakrishnan
June   ACM SIGMOD Record, Volume 15 Issue 2
1986
Publisher: ACM

Full text available: pdf(3.48 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 8,   Downloads (12 Months): 137,   Citation Count: 168

This paper surveys and compares various strategies for processing logic queries in relational databases. The survey and comparison is limited to the case of Horn Clauses with evaluable predicates but without function symbols. The paper is organized in ...

10 [Learning efficient query processing strategies](#)

Russell Greiner
July   PODS '92: Proceedings of the eleventh ACM SIGACT-SIGMOD-SIGART
1992   symposium on Principles of database systems
Publisher: ACM

Full text available: pdf(1.40 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 19,   Citation Count: 0

A query processor QP uses the rules in a rule base to reduce a given query to a series of attempted retrievals from a database of facts. The Qp's expected cost is the average time it requires to find an answer, averaged over its anticipated ...

11 Bonded arity Datalog (≠) queries on graphs

Foto N. Afrati
May   PODS '94: Proceedings of the thirteenth ACM SIGACT-SIGMOD-SIGART
1994   symposium on Principles of database systems
Publisher: ACM

Full text available: pdf(858.93 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 18,   Citation Count: 1

We show that there are Datalog(≠) queries on graphs (i.e., the extensional database contains a single binary relation) that require recursively defined predicates of arbitrarily large width. More specifically, ...

12 An approach to the recursive retrieval problem in the relational database

F.-Y. Kuo, J. Tillquist
February 1989 Communications of the ACM,   Volume 32 Issue 2
Publisher: ACM

Full text available: pdf(857.89 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 28,   Citation Count: 2

The host query language often impairs data retrieval in recursive database structures. Functional extensions to QUEL are explored in order to simplify the user interface.

13 Non-deterministic modelling of logical queries in deductive databases

Hussien Aly, Z. Meral Ozsoyoglu
December 1987   ACM SIGMOD Record,   Volume 16 Issue 3
Publisher: ACM

Full text available: pdf(1.08 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 0,   Downloads (12 Months): 15,   Citation Count: 2

We propose a technique based on Petri Nets formalism to model logic queries in deductive databases. The model is called PNLP (Petri Net model for Logic Programs), and it has a simple formal description and a graphical representation. The PNLP model explicitly ...

14 <u>Modelling Non Deterministic Queries and Updates in Deductive Databases</u>

Christophe de Maindreville, Eric Simon
August   VLDB '88: Proceedings of the 14th International Conference on Very Large
1988   Data Bases
Publisher: Morgan Kaufmann Publishers Inc.

Additional Information: <u>full citation</u>, <u>references</u>, <u>cited by</u>

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 17

15 <u>A Parallel Strategy for Transitive Closure usind Double Hash-Based Clustering</u>

Jean-Pierre Cheiney, Christophe de Maindreville
August   VLDB '90: Proceedings of the 16th International Conference on Very Large
1990   Data Bases
Publisher: Morgan Kaufmann Publishers Inc.

Additional Information: <u>full citation</u>, <u>references</u>

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

16 <u>On compile-time query optimization in deductive databases by means of static</u>
<u>filtering</u>

Michael Kifer, Eliezer L. Lozinskii
September   ACM Transactions on Database Systems (TODS),   Volume 15 Issue
1990   3
Publisher: ACM

Full text available: <u>pdf(3.49 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, <u>index terms</u>, <u>review</u>

Bibliometrics: Downloads (6 Weeks): 0,   Downloads (12 Months): 58,   Citation Count: 3

We extend the query optimization techniques known as algebric manipulations with relational expressions [48] to work with deductive databases. In particular, we propose a method for moving data-independent selections and projections into recursive axioms, ...

Keywords: dataflow, deductive databases, filtering, fixpoint, graph representation, inference, projection, recursive rules, selection

17 Optimization of object-oriented recursive queries using cost-controlled strategies

Rosana S. G. Lanzelotte, Patrick Valduriez, Mohamed Zaït
June   SIGMOD '92: Proceedings of the 1992 ACM SIGMOD international conference
1992   on Management of data
Publisher: ACM

Full text available: pdf(1.07   Additional Information: full citation, abstract, references, cited by, index
MB)   terms

Bibliometrics: Downloads (6 Weeks): 1,   Downloads (12 Months): 24,   Citation Count: 7

Object-oriented data models are being extended with recursion to gain expressive
power. This complicates the optimization problem which has to deal with recursive
queries on complex objects. Because unary operations invoking methods or path
expressions ...

18 Query evaluation under the well-founded semantics

Weidong Chen, David S. Warren
August   PODS '93: Proceedings of the twelfth ACM SIGACT-SIGMOD-SIGART
1993   symposium on Principles of database systems
Publisher: ACM

Full text available: pdf(1.13   Additional Information: full citation, abstract, references, cited by, index
MB)   terms

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 30,   Citation Count: 11

SLD resolution with negation as finite failure (or SLDNF) reflects the procedural
interpretation of Horn-clause predicate logic as a programming language and forms
the computational basis for prolog systems. Despite its advantages in memory
management, ...

19 Efficient Implementation of Loops in Bottom-Up Evaluation of Logic Queries

Juhani Kuittinen, Otto Nurmi, Seppo Sippu, Eljas Soisalon-Soininen
August   VLDB '90: Proceedings of the 16th International Conference on Very Large
1990   Data Bases
Publisher: Morgan Kaufmann Publishers Inc.

Additional Information: full citation, references, cited by

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 1

20 Compiling query constraints (extended abstract)

Peter J. Stuckey, S. Sudarshan
May   PODS '94: Proceedings of the thirteenth ACM SIGACT-SIGMOD-SIGART
1994   symposium on Principles of database systems
Publisher: ACM
Full text available: pdf(1.24 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 19, Citation Count: 7

We present a general technique to push query constraints (such as length$\leq$1000) into database views and (constraint) logic programs. We introduce the notion of parametrized constraints, which help us push constraints with argument ...

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